

2

## Corrosion of Nuclear- (Cont.)

SOV/5258

Gerasimov, V. V., and A. I. Gromova. Investigating the Corrosion and Electrochemical Behavior of the 12KhM Steel in Water at a High Temperature 191

Gerasimov, V. V., V. N. Aleksandrova, and E. T. Shapovalov. Investigating the Corrosion and Electrochemical Behavior of the 2Kh13 Steel 200

Gerasimov, V. V., A. I. Gromova, and E. T. Shapovalov. Investigating the Effect of Contacts and Gaps on the Water Corrosion Resistance of Constructional Materials at High Temperature 205

Freyman, L. I. Water Corrosion of Aluminum and Its Alloy at High Temperatures 217

Tolstaya, M. A., G. N. Gradusov, and S. V. Bogatyreva. In-  
Card 8/8

S/064/61/000/012/C02/002  
B103/B110

AUTHOR: Freyman, L.

TITLE: All-Union Conference on Theoretical Problems of Corrosion  
and Metal Protection

PERIODICAL: Khimicheskaya promyshlennost', no. 12, 1961, 50

TEXT: The Komissiya po bor'be s korroziyey pri Otdelenii khimicheskikh nauk AN SSSR (Commission for Combating Corrosion at the Department of Chemical Sciences AS USSR) and the Institut fizicheskoy khimii AN SSSR (Institute of Physical Chemistry AS USSR) held a conference in Moscow at the beginning of October 1961, 14 reports were delivered and discussed, three of which dealt with the passivity of metals and alloys: N. D. Tomashov showed that in the case of unchanged kinetics of anodic metal dissolution, the rate of corrosion is determined by the kinetics of the cathodic process. The corrosion of metals which can be passivated can be slowed down by accelerating the cathodic depolarization process. This can be achieved by adding metals having low voltage. New alloys were obtained by adding Pt ✓

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or other noble metals to titanium and stainless steel. Ya. M. Kolotyrkin discussed the mechanism of electrochemical and corrosion behavior of metals during passivation and the utilization of passivity for the corrosion protection of metals. Inhibitors of the oxidizer type and cathodic additives to metals accelerate the depolarizing cathodic reaction, shift the potential in positive direction and may, therefore, have a passivating effect. V. P. Batrakov reported on processes of chemical passivation and overpassivation, especially the self-passivation mechanism of stainless steel in the presence of surface films acting as cathodes, and referred to intermediate electrochemical states of metal (pre-active, pre-passive, and other states). Factors determining the rate of corrosion in various states were discussed. Four reports dealt with intercrystallite corrosion and the cracked state caused by corrosion: A. I. Golubev presented new data on the electrochemical behavior of compounds forming in some aluminum alloys ( $\text{FeAl}_3$ ,  $\text{NiAl}_3$ ,  $\text{CrAl}_6$  and others). These compounds act in alkaline and neutral solutions as cathodes for aluminum and may reduce the corrosion resistance. I. A. Levin reported on intercrystallite corrosion in stainless steel during heating. At low carbon content, the rate of this process

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is limited by carbon diffusion, while chromium diffusion is the limiting factor at sufficiently high C content. Corrosion proceeds fastest when the metal grains are in a passive state and the grain boundaries in an active one. S. G. Vedenkin reported on the application of modern conceptions of metal physics (especially the dislocation theory) to the corrosion of metals under stress. The familiar conceptions on the mechanism of corrosion fatigue are insufficiently proved. The electrochemical heterogeneity of the metal surface under the effect of cyclic stresses sets in owing to fatigue cracks. F. F. Azhigin generalized published data on the effect of stress in metal on the rate of cracking due to corrosion. The time interval up to crack formation ( $\tau$ ) and stress ( $\sigma$ ) are interrelated by  $(\sigma - \sigma_{cr})\tau = \text{const.}$  Below the critical stress ( $\sigma_{cr}$ ), no cracking due to corrosion sets in. The tendency of metals toward cracking depends on the ratio of the rate of corrosion at the places of stress concentrations to that of total corrosion, uneven stress distribution on the surface, and on the internal stresses in the metal. Three reports dealt with the effect of corrosion inhibitors: I. L. Rozenfel'd investigated the correlation between

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composition and structure of volatile inhibitors and their protective effect. Highly active inhibitors could be produced by a certain arrangement of the functional groups in the molecule of the inhibitor. The protective effect of many volatile inhibitors is based on the potential shift of the metal to the passive range. According to L. I. Antropov, the adsorption on the metal surface is determined by the particle properties of the inhibitor and the charge of the metal surface. If the potentials of the zero charge of the metals are known, the inhibitors can be tested by studying their adsorption on a mercury electrode. S. A. Balezin discussed mechanisms of the protective effect of inhibitors. The effect of some inhibitors is not based on surface effects but on the decrease in aggressiveness of the corrosion medium. A. N. Frumkin showed that cations may be adsorbed on the metal surface having a positive charge. This adsorption may either be specific or develop through the attraction of cations by anions, or by the negative ends of adsorbed dipole molecules. The protective effect of some inhibitors can be increased by utilizing this phenomenon. G. V. Yakubovitch stated that corrosion can be prevented according to the composition of the coat of varnish or paint:(a) by its effect as a diffusion barrier.

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preventing the access of aggressive agents to the metal surface; (b) by electrochemical phenomena: the effect of protective coating or passivation. The criteria for (a) are the electrical resistance and the capacitance as well as their variations with time. The criterion of (b) is the ability of coatings to affect the electrode potential of the metal. V.V.Chebotarevskiy stated that the isolating properties of varnish and paint coats on magnesium alloy are determined by their density, structure, and hydrophilic properties. The presence of water-soluble substances in the coatings favors the osmotic influx of moisture and blistering. Chromate pigments in the coatings passivate the alloy and greatly increase the protective effect. L. K. Lepin' discussed the role of charged colloidal particles in the mechanism of corrosion. K. M. Gorbunova reported on the mechanism of formation and properties of protective metal coatings produced by chemical reduction. The conference evaluated the state of research into the theory of corrosion and protection of metals, and planned the main trends for further activities.

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S/032/61/027/002/008/026  
B134/B206

AUTHOR: Freyman, L. I.

TITLE: Reduction of the temperature error in corrosion tests by means of determining the electric resistance of the sample

PERIODICAL: Zavodskaya laboratoriya, v. 27, no. 2, 1961, 170-173

TEXT: In metal corrosion tests by means of determining the electric resistance of the sample, especially in the case of slowly progressing corrosion, temperature variations cause measuring errors which must be avoided. One of the methods trying to avoid the effect of temperature variations is that by G. A. Marsh and E. Shaschl (Corrosion, 12 (1956) and 13 (1957)). It is based on the testing of two samples, one being coated with insulating lacquer, and the ratio ( $f = R_1/R_2$ ) of the electric resistances of the two samples being determined. This method has, however, two drawbacks: 1) there are no suitable insulating lacquers resisting various corrosives, especially at high temperatures; 2) such high temperature differences may occur between the two samples at fast temperature fluctuations due to the low heat conductivity of the coating that the test gets

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Reduction of the temperature error...

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useless. In this paper, a method is described which is based on the fact that the relative resistance change of samples during corrosion is inversely proportional to the sample thicknesses (for equally small depths of corrosion). The ratio f of the resistances of two samples of the same material but of different thicknesses is measured. The quantity f is independent of temperature, but depends on the depth of corrosion. It is assumed that the rate of corrosion is independent of the sample thickness. If this is not the case, samples of very different thicknesses are used so that for moderately rapid temperature fluctuations  $\Delta f/f = 2(\lambda_1/b_1 - \lambda_2/b_2)$  ( $\lambda_1$  and  $\lambda_2$  = depths of corrosion,  $b_1$  and  $b_2$  = sample thicknesses). The dependence of the quantities  $\Delta R/R$  and  $\Delta f/f$  on the time was determined for the corrosion of samples from Armco iron in bidistilled water saturated with oxygen (1 atm,  $40 \pm 0.8^\circ\text{C}$ ), and saturated with hydrogen. While it was not possible to determine the corrosion according to  $\Delta R/R$ , the change of  $\Delta f/f$  showed the corrosion effect of oxygen in water. There are 2 figures, 1 table, and 3 references: 2 non-Soviet-bloc.

Card 2/2

FREYMAN, L.I.; KOLOTYRKIN, Ya.M.

Pitting corrosion of iron by perchlorate ions. Dokl. AN  
SSSR 153 no.4:886-888 D '63. (MIRA 17:1)

1. Fiziko-khimicheskiy institut im. L.Ya. Karpova. Pred-  
stavлено академиком V.A. Karginym.

FREYMAN, L.I.; KOLOTYRKIN, Ya.M.

Investigating the effect of an xide phase film on the electro-  
chemical behavior of iron and steel in a neutral solution.  
Zashch.met. 1 no.1:77-83 Ja-F '65. (MIRA 18:5)

1. Nauchno-issledovatel'skiy fiziko-khimicheskiy institut imeni  
Karpova.

FREYMAN, L.I.; KOLOTYRKIN, Ya.M.

Investigating the effect of anions on the passivation of  
iron in neutral solutions. Zashch. met. 1 no.2:161-167  
Mr-Ap '65. (MIRA 18:6)

1. Nauchno-issledovatel'skiy fiziko-khimicheskiy institut imeni  
Karpova, Moskva.

FREYMAN, L.I.; KOLOTYRKIN, Ya.M.; GIVENTAL', A.Ya.

Structural corrosion and the passivation of iron. Zashch. met.  
1 no.3:286-292 My-Je '65. (MIRA 18.8)

1. Nauchno-issledovatel'skiy fiziko-khimicheskiy institut imeni  
L.Ya. Karpova, Moskva.

KOLOTYRKIN, Ya.M.; FREYMAN, L.I.

Activation of iron by halogen ions. Dokl. AN SSSR 162 no.2;  
376-379 My '65. (MIRA 18:5)

L. Fiziko-khimicheskiy institut im. L.Ya.Karpova. Submitted  
November 5, 1964.

FRUDEN, L. P. & POLOTYRKIN, Ye. M.

Effect of the acidity of the medium on the potential of iron  
corrosion. Zashch. mat. i plast. 725-726. Pub. 1956.  
(Хим.-мат. журн.)  
L. Fruden i sredstvami tsinko-khimicheskoy zashchity metallov  
I. Ye. Polotrykin, Moskva.

L 04770-67 EWT(m)/FWF(t)/FTI LIF(s) ID/WP/JR

ACC NR: AP6025724

SOURCE CODE: UR/0365/66/002/004/0488/0490

AUTHOR: Freyman, L. I.; Kolotyrkin, Ya. M.

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B

ORG: Scientific Research Physicochemical Institute im. L. Ya. Karpov  
(Nauchno-Issledovatel'skiy Fiziko-Khimicheskiy Institut)TITLE: Pitting corrosion<sup>1</sup> of aluminum in sodium perchlorate and  
hydrochloric acid solutions<sup>2</sup>

SOURCE: Zashchita metallov, v. 2, no. 4, 1966, 488-490

TOPIC TAGS: aluminum, corrosion, corrosion rate, perchlorate, chloride,  
solution kinetics, electrochemistry

ABSTRACT: The behavior of aluminum in perchlorate- and chloride-containing solutions was studied to obtain data to help explain the action between perchlorate ions and different metals. Polarization curves were obtained for the aluminum. The curves in pure borate buffer solution (pH 7.4) and in 0.1 N Na<sub>2</sub>SO<sub>4</sub> coincided at potentials from -0.5 to +0.5 v, showing no activation. The behavior was similar in 0.1 N NaClO<sub>4</sub> up to about -0.05 v, but as potential increased to -0.03 v, the current rapidly increased. Electrode pitting and gas evolution were noted. Al was activated in 0.1 N HClO<sub>4</sub> at a lower critical potential of

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UDC: 620.193.01

ACC NR: AP6025724

-0.09 v. In the control 0.1 N NaCl activation was observed at 0.41 v. The relative ability, with respect to chloride, of bromide, iodide and perchlorate anions to activate passive metals ( $\Delta\phi_{crit} = \phi_{Cl^-}^{crit} - \phi_{An'}^{crit}$ , where  $An' = Br', I', ClO_4'$ ) was found to increase in the series Fe, Al, Zr.  $\Delta\phi_{crit}$  increased regularly in the order  $Br' < I' < ClO_4'$ , except for an anomalously high value for Fe in  $ClO_4'$  which was attributed to secondary activation. Orig. art. has: 1 table and 1 figure.

SUB CODE: 11,07 / SUBM DATE: 05Apr66 / ORIG REF: 012 / OTH REF: 002

Card 2/2 2B

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513710007-7

~~FIREYMAN, L.S.~~, Professor.

Use of ultrasonic defectoscopy in the machinery industry. Vest.  
mash.27 no.12:88-93 D 147.  
(Ultrasonic waves--Industrial applications) (MIRA 9:4)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513710007-7"

RUBTSOV, V.I.; FREYMAN, L.S. (Voronezh).

Higher level of mathematical training of those who graduate  
from schools. Mat.v shkole no.2:32-36 Mr-Ap '54. (MLRA 7:3)  
(Mathematics--Study and teaching)

FREYMAN, L.S.

History of the proof of Coriolis' theorem. Trudy Inst.ist.est.i  
tekhn. 10:213-244 '56. (MLRA. 9:12)  
(Coriolis, Gustave Gaspar, 1792-1843)  
(Motion)

FRIMAN, L.S. (Voronezh).

L. Euler and the analytic method in mechanics. Vop. 1st. est. i  
tekh. no. 4:164-167 '57.  
(Mechanics, Analytic) (MIRA 11:1)

FRIJMAN, L.S.

The "Petersburg principle" and d'Alembert's principle. Trudy Inst.  
ist. est. i tekhn. 19:544-563 '57.  
(Dynamics) (MIRA 11:2)

FREYMAN, L.S., pref.; SAVVIN, E.A., assistant

Theory of plane-parallel motion in the course of theoretical mechanics. Izv. vys. ucheb. zav.; mashinostr. no.6:5-17 '61.  
(MIRA 14:7)

1. Voronezhskiy lesotekhnicheskikh institut.  
(Motion)

FREYMAN, L.S.

G.-G. Coriolis; on the 170th anniversary of his birth. Trudy  
Inst. ist. est. i tekh. 43:478-489 '61. (MIRA 15:1)  
(Coriolis, Gaspard-Gustave, 1792-1843)

FREYMAN, L.S.

Mass transfer in a wetted corn seed. Inah.-fis. shur. 7 no.12:  
73-78 D '64  
(MIRA 18:2)

FREYMAN, Leon Semenovich; MIKIPOROVSKIY, V.A., red.

[What is higher mathematics, how it differs from school  
mathematics, and what it is required for] Chto takie  
vysshaisa matematika, chem ona otlichatsia ot shkols'cii,  
zachem ona nuzhna. Moskva, Nauka, 1965. 151 p.  
(MIFI A 18.7)

GRIGOR'YAN, Ashot Tigranovich; FREYMAN, L.S., otv. red.; KLYAUS, Ye.M.,  
red. izd-va; KASHINA, P.S., tekhn. red.

[Outline of the history of mechanics in Russia] Ocherki istorii me-  
chaniki v Rossii. Moskva, Izd-vo Akad. nauk SSSR, 1961. 290 p.  
(Mechanics) (MIRA 14:11)

FREYMAN, M.I.

Organizing a campaign against pyodermitis in logging camp workers.  
Zdrav.Ros.Feder. 2 no.2:16-19 F '58.  
(MIRA 11:3)

1. Iz Leningradskogo oblastnogo kozhno-venerologicheskogo dispensera  
(glavnnyy vrach V.I.Pavlova, nauchnyy rukovoditel' - chlen-korrespon-  
dent AMN SSSR prof. P.V.Koshevnikov)  
(SKIN--DISMASES)  
(LUMBERMEN--DISMASES AND HYGIENE)

FREYMAN, N.I.; YELETSKIY, A.Ye.; BEL'SKIY, N.V.

Dispensary services for patients with eczematoides (eczema-like epidermodermites). Vest.derm.i vñn. 34 no.12:24-27 '60.

(SKIN-DISEASES)

(ECZEMA)

(MIRA 14:1)

FREYMAN, N.I., vrach

Treatment of pityriasis versicolor with a 4% solution of boric acid. Vest. derm. i ven. no.2:70-72 '64.

1. Leningradskiy gorodskoy kozhno-venerologicheskiy dispanser  
(glavnnyy vrach Z.P. Polyakova). (MIRA 17:11)

FREYMAN, N.I.

Infection of the facial skin by the mites Demodex folliculorum.  
Vest. derm. i ven. 38 no.3:42-44 Mr '64.

1. Leningradskiy gorodskoy kozhno-venerologicheskiy dispanser  
(glavnnyy vrach Z.P.Polyakova). (MIRA 18:4)

FREYMAN

FREYMAN, N.YU.

O rezul'tatakh ispytaniil servo-rulei v trube i v nature. (In:  
Vsesoiuznaia konferentsiia po aerodinamike. 3d. Moskva, 1933. Trudy.  
Pt. I, p. 110-122, diagrs.)

Title tr.: Results of testing servo-rudders in a wind-tunnel and in  
actual flight.

TL505, V66 1933

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of  
Congress, 1955

FREYDMAN, P. A.

Rings with an idealizer condition. Part 1. Izv. vys. ucheb.  
sav.; mat. no.2:213-222 '60. (MIR13:7)

1. Ural'skiy gosudarstvennyy universitet.  
(Rings (Mathematics))

FREYMAN, P.Y.

Reclaiming synthetic-rubber galoshes by the acid method. P. R. Freyman. *Cavichous and Rubber* (U. S.

S. R.Y. 1940, No. 4, 5, 77-8. A study was made to determine the optimum conditions for reclaiming galoshes containing 100% synthetic rubber by the acid method. The degree of grinding of the rubber affects the duration of swelling. To obtain satisfactory reclaim, 27-30% of softeners should be used. B. Z. Kamach

ASB 104 METALLURGICAL LITERATURE CLASSIFICATION

SEARCHED

INDEXED

FILED

FREYMAN, R.S.

Determining the duration of the transient state in the continuous synthesis of methylchlorosilane. Khim. prom. 41 no.1:22-23 Ja '65.  
(MIRA 18:3)

FREYMAN, S.Ya.

Comparative evaluation of two spectroscopic instruments for color sense investigations; Nagel's anomaloscope and Rabkin's spectro-anomaloscope. Probl.fiziol.opt. 12:503-510 '58 (MIRA 11:6)

1. Laboratoriya tsvetovogo zreniya TSentral'noy nauchno-issledovatel'skoy laboratorii Glavnogo upravleniya Ministerstva.  
(COLOR SENSE)  
(EYE, INSTRUMENTS AND APPARATUS FOR)

FREYMAN, T. [Freimānis, T.]; KHEYDEMAN, K. [Heidemanis, K.]

Effect of prednisolone on glucose and nonesterified fatty acid metabolism in diabetes mellitus; preliminary report. Izv. AN Latv.SSR no 3:78-79 '63.

1. Institut eksperimental'noy i klinicheskoy meditsiny AN Latviyskoy SSR.

(PREGNA)

(METABOLISM)

(DIABETES)

(MIRA 16:5)

KOLOSOV, Aleksandr Gerasimovich; TITOV, Konstantin Sergeyevich;  
FREYMAN, Tamara Iosifovna; MIROSHCHENKO, S., stv. red.

[Turnover tax on food products] Nalog s oborota po pre-  
dovol'stvennym tovaram. Moskva, Finansy, 1965. 213 p.  
(MIRA 18:5)

MOKHOV, Boris Ivanovich; D'YACHENKO, Aleksandr Akimovich;  
FREYMAN, Tamara Iosifovna; MILLIONSHCHIKOV, A.D., et al. red.

[Payments and compensations from budget funds to organizations operating on a profit] Vyplaty i vzmeshcheniya khozorganam sredstv iz biudzheta. Moskva, Finansy, 1965. 86 p.  
(MIRA 18:7)

FREYMAN, V. B.

"Experimental Data on the Study of Certain Bacterial Products in Tumors of Animals." Sub 29 Nov 51, Acad Med Sci USSR.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55.

*Cand. Med. Sci.*

FREYMAN, V. B.

USSR/Medicine - Antigens  
Medicine - Cells

Mar 49

"Differentiation of Nuclear Nucleoproteins With Tumorous and Normal Cells," L. A. Zil'ber, V. B. Freyman, I. B. Zbarskiy, S. S. Debov, Cen Oncol Inst imeni P. A. Gertsen, 4 pp

"Dok Ak Nauk SSSR" Vol LXV, No 1

Since the anaphylaxis reaction is one of the most sensitive for determining specificity of albuminous antigens, authors attempt to find if it can be used to differentiate nucleoproteid antigens of tumorous cells from nucleoproteids of normal cells. Submitted by Acad N. N. Anichkov, 10 Sep 48.

PA 29/49T70

FREYMAN, V. B.  
FREYMAN, V.B.

Experimental data for the investigation of the effect of certain bacterial products on growth of tumors in animals. Trudy AMN SSSR 21 no.4:224-233 '52.  
(MIR 10:8)

1. Iz virusologicheskoy laboratorii (zav. - deystvitel'nyy chlen AMN SSSR prof. L.A.Zil'ber) TSentral'nogo onkologicheskogo instituta (dir. - chlen-korrespondent AMN SSSR prof. A.I.Savitskiy)  
(MICROPLASMS, experimental,  
eff. of Micrococcus pyogenes sysates on growth)  
(MICROCOCCUS PYOGENES,  
lysates, eff. on exper. tumor growth)

GORODILOVA, V.V.; FREYMAN, V.B.

Some data on antigens of human and mouse mammary carcinoma.  
Zhur.mikrobiol.epid.i immun. no.3:39-43 Mr '54. (MLRA 7:4)

1. Iz virusologicheskoy laboratorii (zaveduyushchiy - professor  
L.A.Zil'ber) Gosudarstvennogo onkologicheskogo instituta im. P.A.  
Gertsena (direktor - professor A.I.Savitskiy).  
(Mammary glands--Cancer) (Antigens and antibodies)

FREYMAN, V. B.

Doc Med Sci - (diss) "Study of the avidity of immune serums."  
Moscow, 1961. 11 pp; (Ministry of Public Health USSR, Central  
Inst for Advanced Training of Physicians); number of copies not  
given; price not given; (KL, 7-61 sup, 255)

FREYMAN, V.B.; TSELIGOROVA, N.S.

Immunization of horses for the purpose of producing polyvalent anti-influenza serum. Vak. i syv. no.1124-131 '63.

(MIRA 18:8)

l. Moskovskiy institut vaktsin i syvorotok im. I.I.Mechnikova.

FREYMAN, V. M., INTELLIGENCE, M.I., FBI, A.D.A.; NEW YORK, N.Y.

227th (1974) session of Management and Interpretation Committee  
on Intelligence and National Security from Turkey. Vol. I syv. no. 2:132.  
132. Tel.

(MIRA 12:8)

Re Mikayevsky Institute visited May 1974 by Mr. Moshnikov.

SKURKOVICH, S.V.; FREYMAN, V.B.

Studies of the therapeutic effect of sera from animals recovering from burns on burns in different type animals. Biul.eksp.biol.i med. 58 no.7:32-36 Jl '64.  
(MIRA 18:2)

1. Patofiziologicheskaya laboratoriya (zav. - chlen-korrespondent AMN SSSR prof. N.A.Fedorov) TSentral'noego ordena Lenina instituta hematologii i perelivaniya krovi (dir. - deystviteľnyy chlen AMN SSSR prof. A.A.Bagdasarov [deceased]) i Nauchno-issledovatel'skiy institut vaktsin i syvorotok imeni Mечникова (dir. - prof. A.N. Meshalova), Moskva. Submitted March 11, 1963.

L 38464-66 EWT(1)/T JK

ACC NR: AP6029185

SOURCE CODE: UR/0016/66/000/005/0052/0058

AUTHOR: Freyman, V. B.; Golshmid, V. K.

ORG: Moscow Institute of Vaccines and Serums im. Mechnikov (Moskovskiy institut  
vaktsin i sывороток)

TITLE: Studies on botulinus toxins and toxoids by filtration through gel, I.

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 5, 1966, 52-58

TOPIC TAGS: toxin, toxicology, filtration, medical research

ABSTRACT: Botulinus toxins and toxoids of the A and C types were divided into fractions by filtration through the dextran gel Sephadex G-100. The first fraction contained proteins with a molecular weight of over 100,000. It corresponded to the antitoxin-binding activity of the toxoids and to the partial lethal activity of the toxins. Filtration through gel permits the division of botulinus toxins and toxoids into fractions differing in antigenic spectrum. Filtration through Sephadex makes it possible to free the active fractions from low-molecular ballast compounds. Orig. art. has: 4 figures. [JPRS: 36,932]

SUB CODE: 06 / SUBM DATE: 01Oct65 / ORIG REF: 007 / OTH REF: 011

Card 1/1 MRP

UDC: 576.851.553.097.29.093.1

38568

S/072/62/000/007/001/001  
B117/B138

15.2660

AUTHORS: Freyman, Ye. B., Butnik, S. M.

TITLE: Adhesion of glass to iron - carbon alloys

PERIODICAL: Steklo i keramika, no. 7, 1962, 13-16

TEXT: An attempt was made to raise the adhesion temperature of iron - carbon alloys above that of common gray cast iron by changing their composition and structure, with the aim of producing material for glass pressing. The glass-to-metal adhesion temperature was determined by two methods suggested by V. T. Marinina and O. K. Botvinkin (Primenenie grafitno-kolloidnykh smazok v stekol'noy promyshlennosti (Use of graphite-colloidal lubricants in glass industry), Gizlegprom, M. - L., 1946):  
(1) The stationary drop method where a drop of glass is placed on the metal and held for 30 minutes in a furnace at a certain temperature. The experiments are repeated until three reproducible results are obtained.  
(2) Falling drop method, in which the glass drop falls on to the metal plate which is inclined at an angle of 40° this was not suitable for determination of the true adhesion temperature, but was used to compare the adhesion

Card 1/2

Adhesion of glass to iron - ...

S/072/ 62/000/007/001/001  
B117/B138

temperature of different heat resistant alloys at constant glass temperature ( $1030^{\circ}\text{C}$ ), and to determine the dependence of the mean adhesion temperature of the metal on the temperature of the glass mass. 40 different iron - carbon alloys (alloyed with Si, Cr, Al, Mo, Ni, etc) were studied. The adhesion temperature of glass of the same composition was found to be practically independent of the composition and structure of the metal base. The deciding factor is the physical and chemical properties of the glass. According to M. P. Alekseyenko (M. P. Alekseyenko and K. S. Yevstrop'yev. "Optiko-mekhanicheskaya promyshlennost'", no. 5, 1959) it is the viscosity of the glass which determines the onset of adhesion, as on this depends the close contact of the surfaces, which is favorable to the chemical reaction. A pressure of  $1.5 \text{ kg/cm}^2$  was sufficient to lower the adhesion temperature to the softening point of glass. Further increase has no further affect. A rise in the temperature of the glass mass reduces the average temperature of the metal plate at which adhesion takes place. The adhesion temperature was not greatly increased above that of common gray cast iron. There are 2 figures and 2 tables.

Card 2/2

FREYMAN, Ye.V.

New Danian-Paleocene complex of foraminifers in Western Siberia.  
Trudy SNIGGINS no.8;212-215 '60. (MIRA 15:9)  
(West Siberian Plain--Foraminifera, Fossil)

FREYMAN, Ye.V.

Paleocene complexes of foraminifers in the West Siberian Plain.  
Trudy SNIIGGIMS no.23:52-67 '62. (MIRA 16:9)  
(West Siberian Plain--Foraminifera, Fossil)

SUBBOTINA, N.N.; ALEKSEYCHIK-MITSKEVICH, L.S.; BARANOVSKAYA, O.F.:  
BULATOVA, Z.I.; BULYNNIKOVA, S.P.; DUBROVSKAYA, N.F.; KISEL'MAN,  
E.N.; KOZLOVA, G.E.; KUZINA, V.I.; KRIVOBORSKIY, V.V.; USHAKOVA,  
M.V.; FREYMAN, Ye.V.

[Cretaceous and Paleogene Foraminifera in the West Siberian  
Plain] Foraminifery melovykh i paleogenovykh otlozhenii Zapadno-  
Sibirskoi nizmennosti. Leningrad, Nedra, 1964. 455 p. (Leningrad.  
Nauchno-issledovatel'skiy geologorazvedochnyi institut. Trudy,  
no. 234). (MIRA 18:1)

1. Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy geologoraz-  
vedochnyy institut, Leningrad; Sibirskiy nauchno-issledovatel'-  
skiy institut geologii, geofiziki i mineral'nogo syr'ya; Novo-  
sibirskoye territorial'noye geologicheskoye upravleniye i Tyu-  
menskoye territorial'noye geologicheskoye upravleniye.

FREYMAN, YU. A.

Subject : USSR/Electricity AID P - 2351  
Card 1/1 Pub. 27 - 15/30  
Authors : Ivanov, L. M., and Freyman, Yu. A., Engs.  
Title : An experiment in automatic synchronization of generators at a hydroelectric power station  
Periodical : Elektrичество, 5, 61-62, My 1955  
Abstract : The authors describe details of the performance of two vertical 17,500-kva, 10.5-kv, 150-rpm, water-wheel electric generators under automatic synchronization. This method was introduced in 1951 and operated so satisfactorily, that the arrangement for field-adjusted synchronization was dismounted in 1954. During 4 years of operation the generators were subjected 3400 times to automatic synchronization with very few cases of failure.  
Institution: None  
Submitted : N 26, 1954

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513710007-7

FREYMAN, YU.A.

ABRAMOV, A.Ye., master; FREYMAN, Yu.A., master.

New automatic control arrangement for centralized lubricating  
systems for hydraulic turbine-generator units. Elek.sta. 29  
no.1:77-79 Ja '58. (MIRA 11:2)  
(Hydraulic turbines--Lubrication)  
(Automatic control)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513710007-7"

L 21652-66 EWP(f)/T-2/ETC(m)-6  
ACC NR: AP6006140 (N) WW

SOURCE CODE: UR/0114/65/000/010/0037/0039

AUTHOR: Freymann, Yu. I. (Engineer)

ORG: none

42  
B

TITLE: Transition and compressor regimes of a centripetal flow turbine

SOURCE: Energomashinostroyeniye, no. 10, 1965, 37-39

TOPIC TAGS: centripetal flow turbine, turbine, gas turbine engine test

ABSTRACT: Operation of a centripetal turbine in the transition and compressor regimes during sharp decreases of flow rate through the turbine is discussed, and experimental characteristics of a turbine operating in these regimes are presented (for different clearances and angle  $\alpha_1 = 18-60^\circ$ ). An approximate equation is derived to find the conditions of sudden transition from turbine to compressor operation. Experimental characteristics in the turbine-compressor transition regions for a centripetal turbine ( $p_0^*/p_2 = 1.96$ ,  $u_1/c_0 = 0.685$ ;  $n = 20\ 000$  rpm;  $\rho = 0.58$ ) are presented graphically, and the locations of the transition jumps are found to be adequately represented by the derived equation. Transition back to the

Card 1/2

UDC: 621.438.001.5

L 21652-66

ACC NR: AP6006140

turbine regime occurs at a different point, thus forming a hysteresis loop for the transition processes. Graphs of the internal power of the turbine show that it absorbs substantial power in the compressor regimes and can thus be used as a brake under these conditions. Increased hysteresis effects are expected for high temperature gas operation (tests were made with compressed air). Orig. art. has: 5 figures and 2 formulas.

SUB CODE: 21, 13/ SUBM DATE: none/ ORIG REF: 001/ OTH REF: 001

Card 2/2 *JJC*

FREYMAN, Yu. M.

USSR / Microbiology. Medical and Veterinary Microbiology. F.I.

Abs Jour: Referat Zh.-Biol., No 6, 25 March, 1957, 22107

Author : Freiman, Yu. M., Vitrinskaya, A.M.

Inst :

Title : Course of Experimental Tuberculosis Aided by Some Climatic Factors.

Orig Pub: V Sb.: Vopr. lecheniya bolnykh tuberkulezom na klimat.  
kurorte, Simferopol, 1955, 137-139

Abstract: No abstract.

Card : 1/1

-62-

~~SECRET//COMINT~~

BARTOSH, Yevgeniy Tarasovich, kandidat tekhnicheskikh nauk: ~~FREYMAN, V.G.,~~  
inzhener, redaktor; BOBROVA, Ye.N., tekhnicheskiy redaktor

[Gas turbine locomotives] Gazoturbinnye lokomotivy. Moskva, Gos.  
transp. zhel-dor. izd-vo, 1957. 100 p. (MLRA 10:4)  
(Gas turbine locomotives)

FEDOROV, N.A.; SKURKOVICH, S.V.; FRIYMAN, V.T.; MUZYCHENKO, A.P. (Moskva)

Experimental studies on the burn autoantigen. Pat.fiziol. i eksp.terap.  
3 no.6:53-58 N-D '59.  
(MIRA 13:3)

1. Iz Moskovskogo instituta vaktsin i sывороток имени I.I. Mechnikova  
(direktor A.P. Musychenko) i TSentral'nogo instituta hematologii i  
perelivaniya krovi Ministerstva zdravookhraneniya SSSR (direktor -  
deystvitel'nyy chlen AMN SSSR prof. A.A. Bagdasarov).  
(BURNS immunol.)

VARENIK, M.L., inzh.; FREYMAN, Ye.E., inzh.

Experience in using a newly designed water purifier. Sbor. LIIZHT  
no.152:55-68 '58. (MIRA 11:6)  
(Feed-water purification)  
(Railroads--Water supply)

REF ID: A6510

Subject : USSR/Electricity AID P - 1392  
Card 1/1 Pub. 26 - 19/30  
Authors : Ivanov, L. M., Karmazin, I. A.,  
Freyman, Yu. A., Engs.  
Title : Rebuilding of the UK-type speed governor of a  
medium capacity water-wheel  
Periodical : Elek. Sta., 2, 52-54, F 1955  
Abstract : The described speed governor built by the  
Leningrad Metal Works im. Stalin is installed  
at a fully automatic hydropower station with  
remote control. The article describes the  
reconstruction details and the step-by-step  
functioning of the governor after its  
reconstruction. 2 drawings.  
Institution: None  
Submitted : No date

POPENS, Ya. [Popens, J.]; SILLINS, E. [Sillins, E.]; VITOLS, I.;  
Prinimala uchastiyu FREIMANE, T. [Freimane, T.]

Fluorometric determination of 1<sup>7</sup>-hydroxycorticosteroids in human  
blood plasma. Vop. med. khim. 8 - .6:633-634 N-D '62.

I. Institut eksperimental'nyy i klinicheskoy meditsiny AN  
Latviyskoy SSR, fiziko-matematicheskiy fakul'tet Latviyskogo  
universiteta imeni Petera Strutnika, Riga.

(MIRA 17:5)

KHEYDEMAN, K.K. [Heidemanis, K.]; FREYMANE, T.Kh. [Eksamens, T.]

Effect of ACTH on the level of nonesterified fatty acids in  
the plasma of healthy persons and diabetes patients. Biul.  
eksp.biol. i med. 59 no.5:48-51 '65.

(MIRA 18:11)  
1. Sek'tor klinicheskoy fisiologii i terapii (zav. - kand.med.  
nauk V.K.Bumeyster) Latviyskogo instituta eksperimental'noy i  
klinicheskoy meditsiny AMN SSSR i kafedra fakul'tetskoy terapii  
Rizhskogo meditsinskogo instituta (zav. - prof. K.K.Rudzit).  
Submitted October 9, 1963.

FREYMANIS, P. A.

FREYMANIS, P. A. — "Biological Characteristics of Kok-Sagyz and High Yields of this Crop Under Conditions Prevailing in the Latvian SSR." Latvian Agricultural Academy, 1952 in Latvian (Dissertation for the Degree of Candidate of Agricultural Sciences)

SO: Izvestiya Ak. Nauk Latviyskoy SSR, No, 9, Sept. 1955

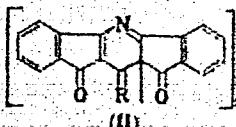
MOSSE, I.B.; TURBIN, N.V.; FREYMANIS, Ya.F.

Effect of conjugate aromatic systems on heredity. Report No.1:  
Mutagenic and antimutagenic effect of some indole compounds.  
Dokl. AN BSSR 8 no.12:827-829 D '64. (MIRA 18:4)

1. Otdel genetiki i tsitologii AN BSSR.

Distr: 4E4J/4E2c(j)

*Imines of d- and polyketones*. I. 2-Benzylindan-1,3-dione. T. Venaga, G. Duhus, and G. Zukin (Louisiana State Univ., Riga). *Zhur. Organichesk. Khim.* 27, 3500-14 (1987). — Refluxing 5 g. 2-benzylindan-1,3-dione (I) in 50 ml. AcOH with 10 g. NH<sub>2</sub>OAc gives 85% I imine, red, m. 260° (AcOH). It hydrolyzes to I in hot concd. HCl. The imine does not dissolve in alkalies but is attacked by basic reducing agents which cleave NH from it. With Br<sub>2</sub>-AcOH the imine yields 2-bromo-2-phenylindan-1,3-dione, m. 104°. With concd. HNO<sub>3</sub> the imine yields 2-nitro-2-phenylindan-1,3-dione, m. 122°. The imine reacts with NH<sub>2</sub>OH-HCl, yielding the diisourea, m. 223-4°, and monoxime, m. 152-3°, which is more sol. in CICH<sub>2</sub>CH<sub>2</sub>Cl; the air-dried monoxime, m. 110-17°. I imine refluxed with PhNHNH<sub>2</sub> in AcOH 7 hrs. gives I amide, m. 222°. Similarly Ia-BuNH<sub>2</sub> gives a complex of I with its isourea, orange-yellow, m. 152°, which refluxed with aq. Na<sub>2</sub>CO<sub>3</sub> gave the insol. I isobutyloxime, m. 191° (shrinks at 180°); this hydrolyzes readily in warm acids and is readily brominated and nitrated, yielding the same products as described above. II. Tristindadione. G. Venaga and G. Duhus. *Ibid.* 2729-33. — Treatment of tristindione,  $\text{C}_4\text{H}_7(\text{CO})_2\text{C}(\text{CH}(\text{COH}\text{C}_6\text{H}_4\text{O}))_2$  (I), (1 g.) with 100 ml. AcOH and refluxing with 5 g. NH<sub>2</sub>OAc, 3 hrs. gives red crystals which after extn. with hot AcOH then with aq. NH<sub>2</sub>OH gives 80% red-brown 1,3-indandione-*spiro*(2,4')-2',3',6',5'-dibenzoylene-3',4'-dihydro-4*H*-pyridine, m. 285°, which forms colored solns. in acids and bases. With aq. KOH it gives a yellow oxidation product II (R = o-phthaloyl) which with KOH-H<sub>2</sub>O<sub>2</sub> gave yellow needles of oxidized



G. VANAGA, J. FRAIMAN

product,  $C_{11}H_{10}O_2N_2$ , decomps. 355°. Reduction of the dihydropyridine deriv. with AcOH-Zn gave II-(*o*-phthaloyl)-Benzalindandione. G. Vanaga, E. I. Stankovich, and E. Ya. Grin. *Ibid.* 2733-8.—Refining 6 g of  $C_{11}H_{10}(CO_2C_6H_5)O_2N_2$  with 20-30 g. NH<sub>4</sub>OAc and 30 ml AcOH at 5° gives a ppt. of yellow 4-phenyl-3,3-bis(4-phenyl-1-pyridyl)azide (I), m.p. 364-5°.  $C_{11}H_{10}O_2N_2$  added to a solution of I by warming the filtrate with a little acetone. The product is prep'd. 4-*m*-nitrophenyl analog, decomps. 392°. 4-Pyridyl with semicarbazide yields the 4-phenyl-3,3-bis(4-pyridyl)azide (II), m.p. 315°. 4-Pyridyl with HONHCl gives yellow monoxime, does not melt before decomprn., while the use of large excess of hydroxylamine gave mainly the dioxime, decomps. 297-8°. The monoxime with Ac<sub>2</sub>O forms the monocetate, yellow solid,  $C_{11}H_{10}O_3N_2$ . I with AcOH-Zn gives colorless 11-phenyl-10,12-dihydroxydibenzylidene-pyridine, m.p. 240°. I with PhNCO forms the bis(phenylcarbamoyl)azide, yellow solid.

G. M. Krentrop

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FREYMANIS, Ya.F. [Freimanis, J.]; VANAG, G.Ya.

Imines of di- and polyketones. Part 4: Ultraviolet absorption spectra structure of imines of 2-substituted 1,3-indandiones. Zhur. ob.khim. 30 no.10:3362-3369 O '61. (IZIRA 14:4)

1. Institut organicheskogo sinteza Akademii nauk Latviyskoy SSR.  
(Indandione) (Imines--Spectra)

FREYMANIS, Ya.F. [Freimanis, J.]; VANAG, G.Ya.

Imines of di- and polyketones. Part 5: Infrared absorption spectra and structure of imines of 2-substituted indandiones and some of their derivatives. Zhur.ob.khim. 30 no.10:3369-3380 O '61.  
(MIRA 14:4)

1. Institut organicheskogo sinteza Akademii nauk Latviyskoy SSR.  
(Indandione) (Imines—Spectra)

FREYMANIS, Ya.F. [Freimanis, J.]; VANAG, G.Ya. [Vanags, G.], akademik

Imination of 2-substituted 1,3-indandiones. Dokl. AN SSSR 139  
no.1:128-130 Jl '61. (MIRA 14:7)

1. Institut organicheskogo sinteza Akademii nauk Latviyskoy SSR.
2. AN Latviyskoy SSR (for Vanag).  
(Indandione)

FREYMANIS, Ya.F. [Freimanis, J.]; VANAG, G.Ya. [Vanags. G.], akademik

Production of 2,2-disubstituted 1-amino-3-indanone. Dokl. Ak  
SSSR 141 no.3:638-640 N '61. (MIRA 14:11)

1. Institut organicheskogo sinteza AN Latviyskoy SSR. 2. AN  
Latviyskoy SSR (for Vanag).  
(Indanone)

FREYMANIS, Ya.F. [Freimanis, J.]; VANAG, G.Ya. [Vanags, G.]

Salts of 3-aminoindones. Dokl. AN SSSR 143 no.2:354-357  
Mr '62. (MIRA 15:3)

1. Institut organicheskogo sinteza AN Latviyskoy SSR. 2. AN  
Latviyskoy SSR (for Vanag).  
(Indone)

FREYMANIS, Ya.F. [Freimanis, J.]; VANAG, G.Ya. [Vanags, G.]

Imines of di- and polyketones. Part 10: Alkylation of 2-methyl-  
and 2-phenyl-1,3-indandione imines. Zbir. ch. khim. 32 no. 7:2140-  
2146 Jl '62. (MIRA 15:7)

1. Institut organicheskogo sinteza AN Latviyskoy SSR.  
(Indandione) (Imines) (Alkylation)

FREYMANIS, Ya.F. [Freimanis, J.]; VANAG, G.Ya. [Vanags, G.]

Imines of di- and polyketones. Part 13: Ultraviolet absorption spectra of 1,3-indandiones and 3-amino-1-indone imines. Zhur. ob. khim. 34 no.2: 445-452 F '64.

Imines of di- and polyketones. Part 14: Infrared absorption spectra, structure, and tautomerism of 3-amino-1-indones. Ibid.:452-462  
(MIRA 17:3)

1. Institut organicheskogo sinteza AN Latviyskoy SSR.

EREYMANIS, Ya.F. [Freimanis, J.]; USOV, V.A.; VANAG, G.Ya. [Vanags, G.]  
[deceased]

Di and polyketone imines. Part 16: Interaction of 2-phenyl,3-indandione with certain aromatic diamines. Zhur. org. khim. 1 no.9:1646-1653 S '65. (MIRA 18:12)

1. Institut organicheskogo sinteza AN Latviyskoy SSR. Submitted June 29, 1964.

ACC NR: AP7006579

SOURCE CODE: UR/0364/66/002/012/1420/1425

AUTHOR: Gaylis, A. K.; Silin', E. A.; Freymann, Ya. F.

ORG: Latvian State University, Riga (Latviyskiy gosudarstvennyy universitet)

TITLE: Study of the volt-ampere characteristics of thin film systems of a series of indene compounds

SOURCE: Elektrokhimiya, v. 2, no. 12, 1966, 1420-1425

TOPIC TAGS: volt ampere characteristic, indene, thin film

ABSTRACT: The volt-ampere characteristics of thin films prepared from systems of the series of 2-arylindenes and their derivatives, which had different tendencies toward polyassociation, were measured. The systems studied were metal/indene compound/metal systems. The indene compounds were deposited on glass substrates between Au-Au, Ag-Ag and Al-Al electrodes, and the measurements were taken in a vacuum of  $10^{-5}$  mm. It is shown that the thin films have nonlinear volt-ampere characteristics of the type  $J = AU^\beta$ , where the nonlinearity coefficient  $\beta$  assumes a series of discrete values as the voltage U increases, A being a proportionality factor. A correlation is established between the character of the change in coefficient  $\beta$  and the magnitude of the intermolecular interaction of the corresponding group of indene compounds. It is suggested that the observed nonlinearity of the volt-ampere characteristics is mainly due to the formation of additional current carriers in the film of the organic compound

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UDC: 621.315.592:547

ACC NR: AP7006579

under the influence of the electric field; the nonlinear increase of the current through the system with rising electric field strength depends substantially on the nature of the intermolecular interaction in the given compound. Orig. art. has: 3 figures and 3 formulas.

SUB CODE: 07/ SUBM DATE: 11Oct65/ ORIG REF: 007/ OTH REF: 001  
20/

Card 2/2

FERENCZ, I.; DELIU, M.; DEFTU, Tr.; SERB, I.; FREYMEIER, B.;  
AVRAMESCU, C.; VLAD, I., conf.

Contributions to the study of wools in the Iasi region.  
Ind text Rum 15 no. 2.60-65 F '64.

1. Polytechnic Institute, Iasi (for Vlad).

KOZLOV, T.I., prof., doktor ekon.nauk, otv.red.; BREGEL', E.Ya., prof., doktor ekon.nauk, red.; BUKH, Ye.M., dotsent, kand.ekon.nauk, red.; ZHEBRAK, M.Kh., prof., doktor ekon.nauk, red.; ISAKOV, V.I., dotsent, kand.ekon.nauk, red.; FREYMUND, Ye.N., dotsent, kand.ekon.nauk, red.; SHEVCHUK, A.V., kand.ekon.nauk, red.; SHIFMAN, A.G., dotsent, kand.ekon.nauk, red.; SHCHAPINA, T.A., dotsent, kand.ekon.nauk, red.; USTIYANTS, V.A., red.; MELENT'IEV, A.M., tekhn.red.

[Problems in statistics and accounting; a collection of articles on machine accounting] Voprosy statistiki i ucheta; sbornik statei po mekhanizatsii ucheta. Moskva, Gos.stat.izd-vo, No.2. 1959. 350 p. (MIRA 13:6)

1. Moscow. Ekonomiko-statisticheskiy institut.  
(Machine accounting)

FREYMUNDT, Ye. N.

Freymundt, Ye. N. - "The problem of indexing the physical capacity of basic funds (in industry)," Uchen. zapiski (Mosk. ekon.-stat. in-t), Vol. I, 1948, p. 109-21

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

ZAITSEVA, N.; KORENEVSKAYA, N.; FREYMUNDT, Ye.

A book on statistical problems of the national econom's balance ("Problems of economic statistics; analysis of the structure of the national economy and the interrelationship of its elements" by T.V. Riabushkin. Reviewed by N. Zaitseva, N. Korenevskaya, E. Freimundt). Vop. ekon. no.10:111-114 O '59. (MIRA 12:12)  
(Russia--Economic conditions)

NOWIKOV, V.S., prof., otv.red.; FREYMUNDT, Ya.N., dotsent, zam.otv.red.; RIABUSHKIN, T.V., prof., red.; BYDEL'MAN, M.R., kand.ekon.nauk, red.; MALYY, I.G., dotsent, red.; VASHENTSOVA, V.M., dotsent, red.; ZAYTSEVA, N.V., kand.ekon.nauk; SHENTSIS, Ye.M., red.; KAPRALOVA, A.A., tekhn.red.

[Problems in the balance of the economy of a Union Republic; concise stenographic record of an academic conference, January 25-27, 1960] Problemy balansa narodnogo khozisistva soiuznoi respublikи; sokrashchennaya stenogramma nauchnoi konferentsii 25-27 Ianvaria 1960 g. Moskva, Gosstatizdat, TsSU SSSR, 1960. 118 p. (MIRA 14:3)

1. Moscow. Ekonomiko-statisticheskiy institut. 2. Moskovskiy ekonomiko-statisticheskiy institut (for Novikov, Freymundt).
3. Institut ekonomiki Akademii nauk SSSR (for Ryabushkin).
4. TSentral'noye statisticheskoye upravleniye SSSR (for Bydel'man).
5. Moskovskiy gosudarstvennyy ekonomicheskiy institut (for Malyy). (Russia--Economic policy) (Russia--Statistics)

MOROZOVA, Inna Aleksandrovna; FREYMUNDT, Ye. N., red.; GRYAZNOV, V. I.,  
red.; IL'YUSHENKOVA, T. P., tekhn.red.

[Balance of the national economy and methods for compiling it]  
Balans narodnogo khoziaistva i metody ego postroeniia. Moskva,  
Gosstatizdat TsSU SSSR, 1961. 143 p. (MIRA 15:2)  
(Russia—Economic conditions) (Russia--Statistics)

KOZLOV, T.I., prof., otv. red.; BREGEL', E.Ya., prof., red.; BUKH, Ye.M.,  
dots., red.; ZHEBRAK, M.Kh., prof., red.; ISAKOV, V.I., dots., red.;  
FREYMUNDT, Ye.N., dots., red.; SHIFMAN, A.G., dots., red.; SHCHA-  
PINA, T.A., dots., red.; SHEVCHUK, A.V., kand. ekonom. nauk, red.;  
SHENTSIS, Ye.M., red.; PYATAKOVA, N.D., tekhn. red.

[Problems in statistics and accounting] Voprosy statistiki i ucheta.  
Moskva, Gosstatizdat, T&SU SSR. No.3. [Collection of articles on  
labor productivity statistics in industry] Sbornik statei po sta-  
tistike proizvoditel'nosti truda v promyshlennosti. 1961. 145 p.  
(MIRA 14:8)

1. Moscow. Ekonomiko-statisticheskiy institut.  
(Productivity—Accounting)

FREYND, V.

Theodolite-tachymeter Theo 020 with a stabilized index of the  
vertical circle. Geod. i kart. no.12:57-62 D '61. (MIRA 15:1)  
(Theodolites)

FREYNDLIK, V.

SETEYNBERG, N.; FREYNDLIK, V.

Operation of gas generators at granaries of the All-Union Office  
for Storage and Distribution of Grain. Muk.-elev. prom. 20 no.4:  
24 Ap '54.  
(MLRA 7:7)

1. Zhitomirskaya oblastnaya kontora Zagotzerno.  
(Gas generators)

KRASHENINNIKOV, Ye.; FREYNDLING, A.

Use of the O-30 heating units. Avt.transp. 41 no.11:22-23 N  
'63. (MIRA 16:12)

KRASHENINNIKOV, Yevgeniy Mikhaylovich; MARKOV, Dmitriy Nazarovich;  
~~FRSYNDLING~~, Aleksandr Fedorovich; PANKRASHOV, A.P., red.;  
PETROVA, O.B., tekhn.red.

[Machinery for lumber transportation; a brief manual] Leso-  
transportnye mashiny; kratkii spravochnik. Petrozavodsk,  
Gos.izd-vo Karel'skoi ASSR, 1958. 210 p. (MIRA 12:10)  
(Lumber--Transportation)

KRASHENINNIKOV, Yevgeniy Mikhaylovich; FREYNDLING, Aleksandr Fedorovich; SHUBIN, Arkadiy Dmitriyevich; KOLCHANOV, Boris Dmitriyevich; KOBZAR', Yevgeniy Porfir'yevich; PANKRASHOV, A.P., red.; SHEVCHENKO, L.V., tekhn.red.

[Maintenance of machines at lumbering enterprises]  
Tekhnicheskoe obsluzhivanie mashin na lesozagotovitele'-nykh predpriatiakh. Pod red. E.M.Krasheninnikova.  
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Inst : Academy of Sciences of USSR, Karelian Section.  
Title : Hydrological Characteristics of Mikkeli'skoye  
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Abstract : Data of chemical analyses of the ground (in %  
of absolutely dry weighted sample) are given  
in the general hydrological characteristic  
(morphology, water interchange, surface regime,  
grounds, thermal conditions, transparency) of  
the Mikkeli'skoye and the Kroshnozero Lakes  
situated in the southern part of the water  
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Cranes, Tractor

Aug 48

"S-80 Tractors With Interchangeable Suspension Equipment," T. I. Loginov, Engr,  
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"Mekh Trud i Tyazh Rabot" No 8

Tractor has been equipped with universal crane. Photographs show it in use for  
dragline operations & general hoisting. Lists structural characteristics of the  
completed assembly. Briefly describes performance.

PA 29/49T29

FREYNKMAN, I. ✓

PA 32/49T33

USCR/Engineering  
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Sep 48 ✓

"The Amphibious, Universal, Tractor Unit SUTA-1,"  
I. Ye. Freynkman, Engr, 2½ PP

"Mekh Strci" No 9

Describes new universal unit. It can be used  
as dragline, bulldozer, or crane. It is also  
useful for handling timber, and minor excavation  
work. Includes two photographs, and three  
sketches.

32/49T33

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